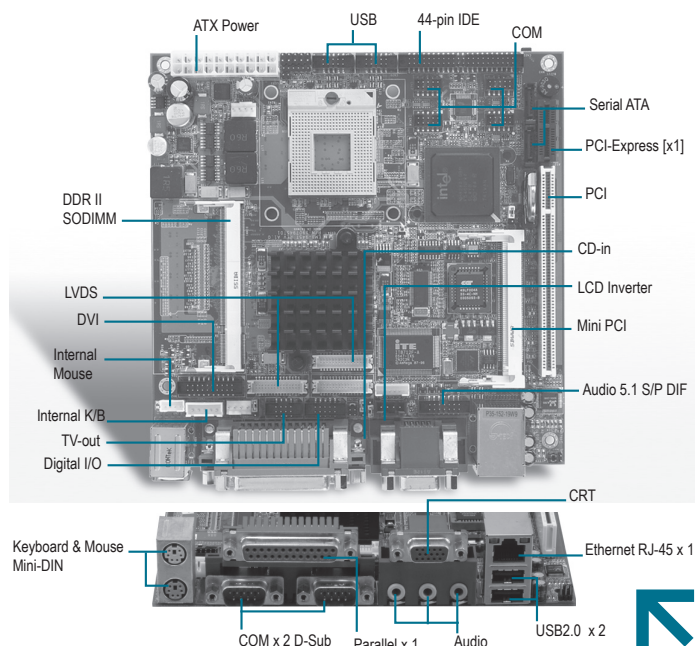


EMB-945T Rev. A

Embedded Motherboard with Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors



Features

- Socket 478 or Onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors
- Intel® 945GME + ICH7M
- SODIMM Slot x 2 DDR II 400/533/667 Max. 4GB
- Gigabit Ethernet x 1 (Marvell® 88E8053)
- Up to 24-bit Dual-channel LVDS LCD
- AC97 5.1CH Audio
- Type II CompactFlash™ x 1, SATA II x 2, EIDE x 1
- COM x 6, Parallel x 1, USB2.0 x 6, 8-bit Digital I/O x 1
- PCI x 1, PCI-E [x1] x 1 and Mini PCI x 1
- ATX



Specifications

System	
Form Factor	Mini-ITX
Processor	Supports Socket 478 or onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors up to 2.16GHz, FSB 533/667
System Memory	200-pin DDR II SODIMM x 2, Max. 4GB (DDR II 400/533/667)
Chipset	Intel® 945GME + ICH7M
I/O Chipset	ITE 8712 + Fintek F81216D
Ethernet	Marvell® 88E8053, 10/100/1000Base-TX, RJ-45 x 1
BIOS	Award Plug & Play BIOS – 512KB ROM
Wake On LAN	Yes
Watchdog Timer	ITE 8712
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	Mini PCI x 1, PCI x 1, PCI-E [x1] x 1
Power Requirement	ATX (+3.3V, +5V, +12V)
Power Consumption (Typical)	T7400 2.16GHz, DDRII 667 1GB 2.59A@+12V, 2.88A@+5V, 0.6A@+3.3V
Board Size	6.7"(L) x 6.7"(W) (170 mm x 170 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	70,000
Display	
Supports CRT/LCD, CRT/TV, CRT/DVI, LCD/DVI and LCD/TV simultaneous / dual view displays	
Chipset	Intel® 945GM
VGA/LCD Controller	1. Intel® 945GM integrated Graphics, shared memory up to 224MB with DVMT; LCD supports up to 24-bit dual-channel LVDS 2. Chronitel 7307 for DVI support 3. Chronitel 7308 for 24-bit dual-channel LVDS support
DVI	DVI-D in pin-header
TV-out	Supports NTSC and PAL standard
I/O	
Storage	EIDE x 1 (UDMA 100 for one device), SATA II x 2, Type II CompactFlash™ x 1
Serial Port	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/ EPP/ ECP mode
USB	USB2.0 x 6
PS/2 Port	Keyboard + Mouse x 1
Digital I/O	Supports 8-bit (Programmable)
IrDA	One IrDA Tx/Rx header
Audio	Mic-in, Line-in, Line-out, S/PDIF in/out

Packing List

- 1701440500
44-pin ATA33 Cable
(Optional for TF-EMB-945T-A10-02)
- 1700200200
DVI Cable
- 1709100201
USB Cable
- 1701100206
Serial Port Cable
- 1700080180
TV-out Cable
- 9657666600
Jumper Cap
- 1709070500
Serial ATA Cable
- 1702150150
Serial ATA Power Cable
- M16666006
CPU Fan, box 60 x 25.4mm, for Socket 478
(Optional for TF-EMB-945T-A10-02)
- M20852T000
Metal I/O Bracket
- Quick Installation Guide
- Utility CD
- EMB-945T Rev.A

Ordering Information

- TF-EMB-945T-A10
Mini-ITX, Socket 478M, LCD-DVI-TV, DDRII, Gigabit Ethernet, Audio, 6 COM, USB2.0, CompactFlash™, Mini PCI, PCI-E, ATX, Rev. A1.0
- TF-EMB-945T-A10-02
Mini-ITX, Socket-478M, LCD-DVI-TV, Gigabit Ethernet, Audio, 6 COM, 6 USB, CompactFlash™, Mini-PCI, PCI-E, ATX, Rev.A1.0 (Basic Cables)

Optional Accessories

- TF-PER-R04P-A11
Riser Card, PCI + PCI-E [x1] for EMB-945T Rev.A
- TF-PER-C10L-A10
Mini PCI 10/100Base-TX Ethernet Module with Realtek 8100C
- TF-PER-C10L-A10-01
Mini PCI Gigabit Ethernet Module with Realtek 8110S
- TF-PER-C10L-A10-02
Mini PCI 10/100Base-TX Ethernet Module with Intel® 82551QM
- TF-PER-C10L-A10-03
Mini PCI Gigabit Ethernet Module with Intel® 82541GI
- TF-PER-C20S-A10
Mini PCI 2-port SATA Module Rev.A1.0
- TF-PER-C30F-A10
Mini PCI 3-port IEEE 1394a Module
- TF-PER-V30C-A11
Mini PCI Single Channel Capture Module with Philips SAA7135
- TF-PER-C40C-A10
Mini PCI 2-port RS-232 Module Rev. A1.0
- TF-PER-C40C-A10-01
Mini PCI 4-port RS-232 Module Rev. A1.0
- TF-PER-1110-A10
Riser Card for PCI, 2-slot
- TF-PER-C102
PCI-Express Dual Ethernet Board
- 1700200200
DVI Cable
- M166666006
Metal, A1, Heat sink, Silver, 60 x 60 x 25.4mm for socket 478
- 1759294520
Cooler, Silver, 60 x 60 x 23, Dataguard